

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Lee Bolduc et al.

Serial No. : Art Unit:

Filed : Examiner:

For : Methods and Devices for Maintaining
Cardiopulmonary Bypass and Arresting A Patient's
Heart

I hereby certify that this correspondence is being deposited with the
United States Postal Service as Express mail in an envelope addressed
to: Commissioner For Patents, Washington, D.C. 20231 on

July 29, 2003

(Date of Deposit)

Brian S. Tomko

(Name of applicant, assignee, or Registered Representative)



(Signature)

July 29, 2003

(Date of Signature)

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

Applicant(s) reserve(s) the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this

information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

☒ In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified national application (other than a continued prosecution application under §1.53(d)), within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of a request for continued examination under §1.114, no additional fee is required.

☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Statement in Accordance with §1.97(e)
(attached); or

☐ Please charge Deposit Account No. 10-
0750/ / the fee of \$180.00 as set forth
in §1.17(p).

☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or an action that otherwise closes prosecution and that it is accompanied by one of:

- ☐ Statement in Accordance with §1.97(e) (attached); or
- ☐ Please charge Deposit Account No. 10-0750/ / the fee of \$180.00 as set forth in §1.17(p).

☐ In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before the payment of the Issue Fee. Applicant(s) hereby petition(s) for consideration of this Information Disclosure Statement. Included are: Statement in Accordance with §1.97(e) as set forth below and the fee of \$180.00 as set forth in §1.17(p).

☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.

☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:

☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

☒ Copies of references listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No.10/196,847, filed 7/17/02, which is a continuation of application Serial No.

09/855,070, filed 5/15/01 and Serial No. 08/598,513,
filed 2/28/96.

☒ There are no listed references which are not in the English language.

☐ The relevance of those listed references which are not in the English language is as follows:

☐ Attached are copies of search report(s) from corresponding patent application(s), which are listed on the attached Submission Under MPEP 609 D.

☐ Attached are the following non-published pending patent applications which may be deemed relevant, which are listed on the attached Submission Under MPEP 609 D.

Please charge any deficiency or credit any overpayment to Deposit Account No. 10-0750/HRT-0303CON/BST. This form is submitted in triplicate.

Respectfully submitted,



Brian S. Tomko
Reg. No. 41,349
Attorney for Applicants

Johnson & Johnson
One Johnson & Johnson Plaza
New Brunswick, NJ 08933-7003
(732) 524-1239
DATED: July 29, 2003

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Application Number

Filing Date

First Named Inventor

Lee R. Bolduc

Group Art Unit

Examiner Name

Attorney Docket Number

HRT-0303-Con

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
		Number	Kind Code ² (if known)			
		1,756,670		Treat	4/30	
		3,254,650		Collito	6/66	
		3,254,651		Collito	5/55	
		3,519,187		Kapitanov	7/70	
		3,570,497		Lemole	3/71	
		3,774,615		Lim et al.	11/73	
		4,192,315		Hilzinger et al.	3/80	
		4,350,160		Kolesov et al.	9/82	
		4,352,358		Angelchik	10/82	
		4,366,819		Kaster	1/83	
		4,368,736		Kaster	1/83	
		4,505,414		Filipi	3/85	
		4,523,592		Daniel	6/85	
		4,553,542		Schenck et al.	11/85	
		4,593,693		Schenck	6/86	
		4,607,637		Berggren et al.	8/86	
		4,624,255		Schenck et al.	11/86	
		4,624,257		Berggren et al.	11/86	
		4,657,019		Walsh et al.	4/87	
		4,665,906		Jervis	5/87	
		4,671,279		Hill	6/87	
		4,747,407		Liu et al.	5/88	
		4,809,695		Gwathmey et al.	3/89	
		4,907,591		Vasconcellos et al.	3/90	
		4,917,087		Walsh et al.	4/90	
		4,917,090		Berggren et al.	4/90	
		4,917,091		Berggren et al.	4/90	
		5,119,983		Green et al.	6/92	
		5,324,447		Lam et al.	6/94	
		5,330,503		Yoon	7/94	
		5,336,233		Chen	8/94	
		5,366,462		Kaster et al.	11/94	
		5,478,354		Tovey et al.	12/94	

		5,522,834		Fonger et al.	6/96	
		5,549,619		Peters et al.	8/96	
		5,554,162		DeLange	9/96	
		5,597,378		Jervis	1/97	
		5,620,452		Yoon	4/97	
		5,695,504		Gifford III et al.	12/97	
		5,702,412		Popov et al.	12/97	
		5,810,851		Yoon	9/98	
		5,972,024		Northrup III et al.	10/99	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T ⁶
		Office ³	Number ⁴	KindCode ⁵				
		WO	97/40754			11/97		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 1	Application Number	
	Filing Date	
	First Named Inventor	Lee R. Bolduc
	Group Art Unit	
	Examiner Name	
	Attorney Docket Number	HRT-0303-Con

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Androsov, "New Method of Surgical Treatment of Blood Vessel Lesions" (1956) Arch. Surg. 73:902-910.	
		Berggren et al., "Clinical Experience with UNILINK 3M Precise Microvascular Anastomotic Device" Scand J Plast Reconstru Hand Surg. Vol. 27, No. 1, 1993; pps. 35-39.	
		Cooper et al., "Development of the Surgical Stapler with Emphasis on Vascular Anastomosis," NY Acad. Sci, 1963;25-365-377.	
		Gentili et al., "A technique for Rapid Non-suture Vascular Anastomosis," Can. J Neuro Sci., Vol. 14, No. 1, Feb. 1987 pps. 92-95	
		Goetz et al., "Internal Mammary-coronary Artery Anastomosis: A Nonsuture Method Employing Tantalum Rings," J Thorac Card Surg. 1961;41(3):378-386.	
		Gottlob et al., "Anastomoses of Small Arteries and Veins by Means of Bushings and Adhesive," J Card Surg, 1968;9:337-341.	
		Guyton et al., "A Mechanical Device for Sutureless Aorta-Saphenous Vein Anastomosis," Ann Thorac Surg, 1979;28:342-345	
		Holt et al., "A New Technique for End-to-End Anastomosis of Small Arteries," Surgical Forum, v. 11, 1960, pp. 242-243.	
		Inokuchi, "A new type of vessel-suturing apparatus," (1958) AMA Arch. Surg. 77:954-957.	
		Inokuchi, "Stapling device for end-to-side anastomosis of blood vessels" (1961) arch. Surg. 82:27-31.	
		Lanzetta et al., "Long-term Results of 1 Millimeter Arterial Anastomosis Using the 3M Precise Microvascular Anastomotic System," Microsurgery; 1992; 13:313-320.	
		Li et al., "End-to-side-anastomosis in the Dog using the 3M Precise Microvascular Anastomotic System: A Comparative Study," J Reconstruct Microsurg. 1991;7(4):345-350.	
		Miller, "The Russian Stapling Device," New York Sci., Series 2, Vol 25, 1962-1963: pps:378-381.	
		Nakayama et al., "A Simple New Apparatus for Small Vessel Anastomosis (free autograft of the sigmoid included)," Surgery, 1962;52(6):918-931.	
		Narter et al., "An Experimental Method for Nonsuture Anastomosis of the Aorta," surg Gyne & Obs, 1964;632-361	
		Olearchyk, "Vasilii I Kolesov - a Pioneer of Coronary Revascularization by Internal Mammary-coronary Artery Grafting," J Thorac. Surg. 1988;96(1):13-18.	
		Ragnarsson et al., "Microvenous End-to-side Anastomosis; An experimental study comparing the UNILINK System and Sutures," J. Reconstruct Microsurg. 1989; 5(3): 217-224.	
		Ragnarsson et al., "Arterial End-to-side Anastomosis with the UNILINK System," Ann Plastic Surg. 1989;22(3): 405-415.	
		Rohman et al., "Double coronary artery-internal mammary artery anastomoses, tantalum ring technique," (1960) Surg. Forum 11:236-243.	
		Vogelfanger et al. "A concept of automation in vascular surgery: a preliminary report on a mechanical instrument for arterial anastomosis," (1958) Can. J. Surg. 58:262-265.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.